SmART: dosimetry and applications

Stellingen behorende bij het proefschrift

SmART: Dosimetry and Applications

1: "Cancer is frequently expressed and misunderstood as a single disease"

2: "The onboard imager in small animal irradiators can not only be used for imaging but also for dosimetry"

3: "Shifts or misalignments of the collimators as small as 1-mm in these precision irradiator devices can lead to dose rate decreases greater than 10%"

4: "A dedicated treatment planning system for small animals is required for accurate irradiation in preclinical studies"

5:"The ability to target precisely and increase the prescription dose to murine lungs is an attractive feature of these micro-IR devices that offers opportunities to better understand radiation-induced lung toxicity in stereotactic body radiation therapy"

6: "Paradoxically we have documented more electronically about our own social networks than we have about our own health"

7: "It is fair to say that current RT practice is rather crude at considering secondary late responding toxicities, including cancer induction"

8: "when you have eliminated the impossible, whatever remains, *however improbable*, must be the truth" – Sherlock Holmes in *The Sign of the Four* (Doubleday p. 111)

9: "It always seems impossible until it's done" – Nelson Mandela

10: "[Physics is] a good framework for thinking. … Boil things down to their fundamental truths and reason up from there" – Elon Musk